

# Unity Architectural Rack Mount Dimmer

- 12 Channels
- 1200W per Channel
- DMX-512
- RS-485
- Contact Closures
- 100 Scene Memory
- Fast Acting Magnetic Circuit Breakers
- 19" Rack Mount
- 1400W Available

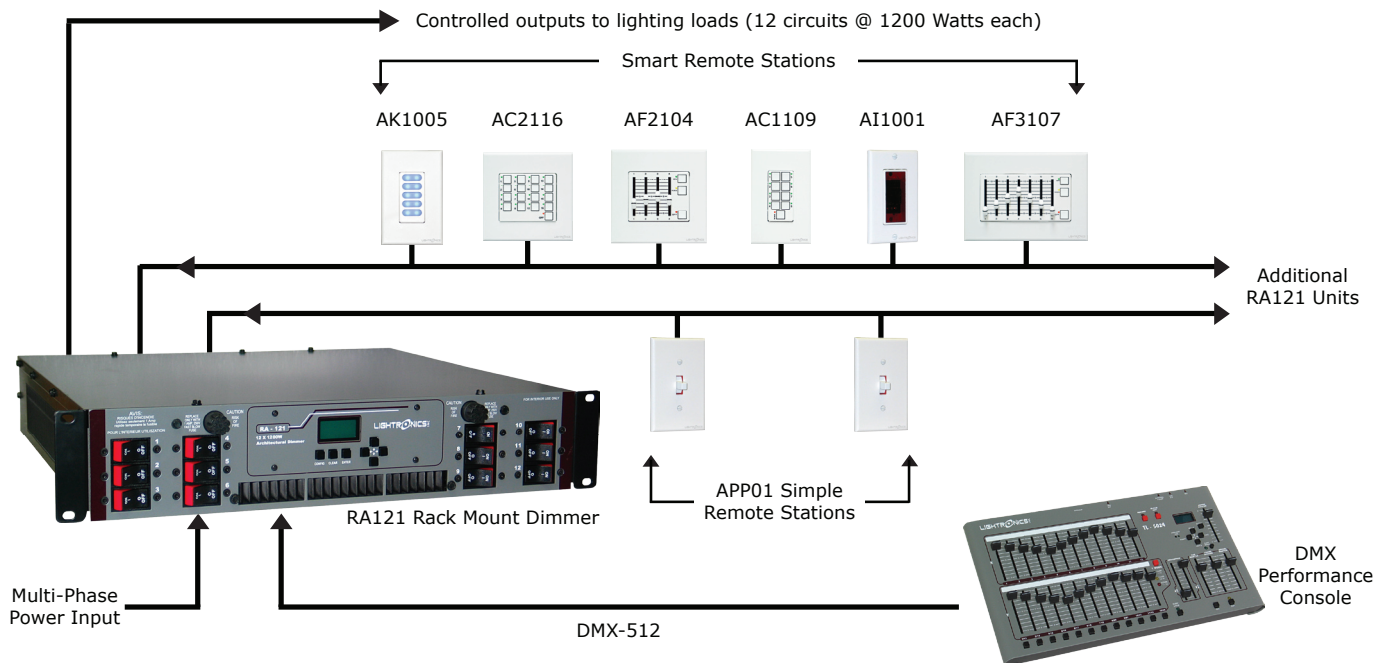


The RA121 rack mount dimmer is suitable for church, stage, theater, school, night club, live performances and other event and artistic applications.

The RA121 consists of a processor and 12 dimmer channels of 1.2KW each. Each dimmer channel is protected by a 10 Amp circuit breaker. Heavy duty filtering chokes are used to reduce noise. Dimmer channel semiconductors exceed a 200% load carrying capacity overhead allowance. The RA121 may be controlled by DMX controllers and several types of wall remote stations.

Control Output Connection Options: Duplex outlet panel with 1 connection per channel, External terminal strip (includes knockout cover), Patchbay panel with 2 powerlock connections per channel, Socapex connector panel (wiring per customer selection)

## TYPICAL SYSTEM DIAGRAM



# Unity Architectural Rack Mount Dimmer

## SPECIFICATIONS

Channels/Capacity:	12 @ 1200 Watts each
Power Requirements:	120/208VAC Three Phase, 40 Amps each Leg OR 120/240VAC Single Phase, 60 Amps each Leg
Power Devices:	Dual 65 Amp SCRs
Power Connector:	Terminal Strip
Channel Output:	Edison, Terminal Strip, Patch Panel, Socapex
Circuit Breakers:	10 Amp Fast Acting
Minimum Load:	15 Watts
Curve:	Modified Square Law
Filter Rise Time:	350 Usec. Minimum
Output Function:	DIMMER or RELAY Selectable
Control Input:	DMX-512 USITT Standard with Softpatch
Front Panel Control:	8 char. x 2 Line LCD Display & Keypad
Remote Network:	RS-485, 62.5 Kbaud, Bidirectional 9 Bit Network
Local Presets:	100 Scenes Standard, Expandable to 255 Scenes
Closure Input:	8 Inputs for Single, Dual Button, or Combine Stations
Remote Stations:	Total of 32 Remote Station with Unique System Addresses
Slave Units:	Up to 31 addtl. units may be added
Size:	19"W x 3.5"H x 13"D
Weight:	27 Pounds

## Architect & Engineer's Specifications

The dimming system shall have 12 circuits with a load capacity of 1200 Watts per circuit. Each circuit is protected by a 10 Amp fast acting magnetic circuit breaker. An allowance of 200% overhead capacity is employed in the circuit design. The dimming system shall have rise time of not less than 450 microseconds. Programming setup and memory attributes is via a front panel LCD display with keypad controls. A user may program the system setup, dimmer attributes of Dim or Relay, softpatch, scene memories, and unit addresses via the front panel display and keypad controls. The dimming system will have a minimum of 100 programmable scenes. Scenes are recalled via standard 8 contact closures, and up to 32 remote stations using a RS-485 protocol. The dimming system shall use USITT standard DMX-512 protocol for direct control of the dimming circuits.

Power requirements of the dimming system shall be 120/208VAC Three Phase or 120/240VAC Single Phase mode. Power connections shall be via terminal block. Control connections shall be via dual DB25 connectors. Mounting of the dimming system shall be on standard 19" EIA rack mount.

Dimensions are 3.5" high, 19" wide, 13" deep. The weight shall be 27 lbs.

The dimming system shall be a Lightronics RA121.

To view and/or download the Owner's Manual click here: [www.lightronics.com/manuals/ra121m.pdf](http://www.lightronics.com/manuals/ra121m.pdf)